

Department of Public Instruction Career and Technical Education

Joint Workforce Development Oversight Committee

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April 5, 2016



Learning that works
for North Carolina

The mission of NC secondary Career and Technical Education is to empower all students to be successful citizens, workers and leaders in a global economy.

- Workforce development available to ALL youth
 - Around 800,000 enrollments annually
 - Around 500,000 students annually
- Ensure that students are ready for college and careers
 - Career advising/coaching/counseling
 - Foundational skills in academic subjects
 - Focused areas of study that align to future plans





Curriculum Development

- 11 consultants
- 175 state approved courses including standards, resources, assessments
- Intentional links to industry standards/certifications



Regional Support

- 6 consultants
- Monitoring and compliance
- Technical Assistance
- Professional Development



Other Support Services

- 6 consultants
- Professional development
- Work-based learning
- Career development and special populations

CTE Performance Expectations

- Integration of literacy and numeracy skills along with technical content
- Acquisition of technical skills
- Student graduation from high school
- Placement in workforce
- Participation and completion of programs of study for non-traditional gender students

Career and Technical Education

- Middle School
 - Increase awareness of careers
 - Create plans for high school
- High School
 - Combine rigorous academics and technical courses
 - Focused skill development for a strong foundation leading to work or post-secondary education
 - Diploma Endorsements



Career and Technical Education

Focused areas of study aligned to industry knowledge and skill requirements.

- Graduation rate of 94%
- 130,611 industry credentials
- 93% positive placement of graduates

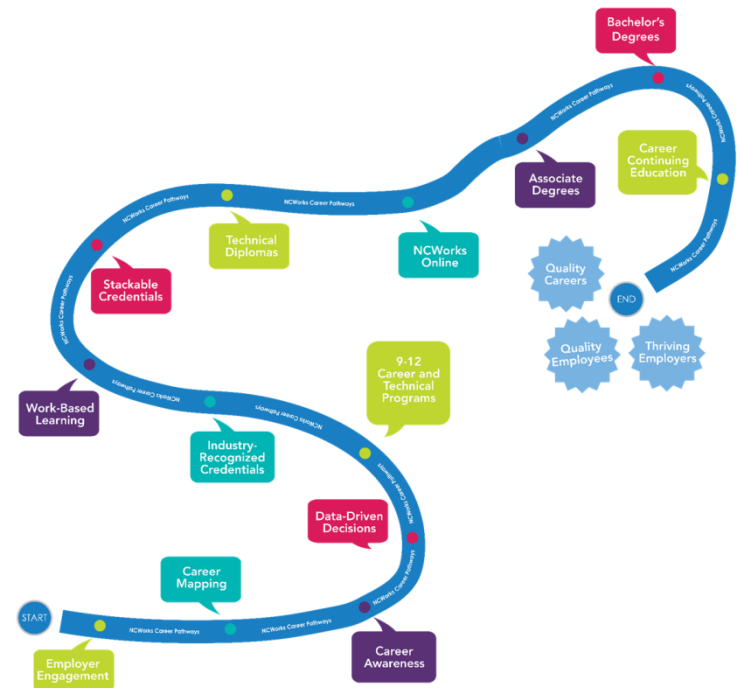


Alignment to Industry

- All CTE course development begins with industry input
 - Formalized process that requires partnership and input with employers and higher education
 - Focus on high growth, high demand, high wage
- Alignment to certifications
 - CTE course standards support acquisition of certifications

NCWorks career pathways

- Collective effort to fill talent pipeline for jobs that are in demand
 - Business and industry determine the skills/knowledge needed
 - Education partners design a program of study to meet the need



NCWorks career pathways

Programs of study aligned across the workforce development system

- High school CTE
- Career and College Promise
- Work-based learning
- Credentials
- Many options for entering and exiting

9-14 CAREER PLAN OF STUDY

HIGH SCHOOL PROGRAM OF STUDY

Classes: Transportation, Distribution & Logistics

COLLEGE PROGRAM OF STUDY: Automotive Systems Technology

College: Rowan-Cabarrus Community College

Associate Degree: Associate in Applied Science Degree

Taken at Community College during High School - Career College Promise courses in GREEN

Anticipation can be earned by scoring a 91 or better on the final exam with a minimum of a B on the final course grade - ACE courses in RED

Dual Academic credit HS & CC - in BLUE

HIGH SCHOOL SCHEDULE

9 th	10 th	11 th	12 th
English I	English II	English III	English IV
Common Core Math I	Common Core Math II	Common Core Math III	APM or Pre-Calculus or Statistics or Electronics I and Electronics II
Earth and Environmental	Biology	Physical Science or Chemistry or Physics	Internship
Civics & Economics	American History I or AP World (year-long)	American History II or AP US History	World History or AP Gov. or AP European
PE: Health	Drafting I	Automotive Computer System III	I) Automotive Advanced Electrical V
I) Automotive Serv. I	II) Automotive Brakes II	II) Automotive Electrical IV	ALT 101 Engine Performance & Lab
Personal Finance	Meats Manufacturing II	ALT 141 Suspension & Steering Systems & Lab	ALT 102 Advanced Auto Electric & Lab
Meats Manufacturing I	Microsoft Excel, Access	Internship or Work-FA Elective (ENGL 110 or ART 111 for dual credit)	Internship or GenEd Elective (PSY150 or SOC 110 for dual credit)

*Two foreign languages taken in High School are needed to transfer to a 4 year college

CREDENTIALS

Microsoft Excel	Microsoft Access	Career Readiness (WorkKeys)	GenEd: Finance (Personal Finance)	Automated Certs: Dier (Drafting)	NIMS (Meats Manufacturing)	ASE (Automotive)
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COLLEGE SCHEDULE

Freshman Year 1 st Semester	Freshman Year 2 nd Semester	Summer Schedule	Sophomore Year 1 st Semester	Sophomore Year 2 nd Semester
I) ALT 101 Intro. Auto Tech	ALT 141 Eng. & Steering Systems & Lab	ALT 171 Auto Climate Control	ALT 142 Adv. Auto Elec. & Lab	ALT 211 Auto. Transmission Lab
ALT 116 Engine Repair & Lab	II) ALT 151 Brakes Systems & Lab	ALT 185 Engine Performance 2	ALT 221 Manual Transmission & Lab	COM 221 Public Speaking
II) ALT 141 Basic Auto Electricity	ALT 161 Engine Test & Lab GenEd Elective (PSY 150 or SOC 110 for dual credit)	ALT 186 PC Skills for Auto Tech	ENG 111 Expository Writing	PHY 110 Conceptual Physics & Lab
			STAT 112 Math Models	Hum Fa Elective (WRT 110 or ART 111 for dual credit)
				ALT 285 Intro. Auto. Fuels
				ALT 112 Auto Service I for FOR 112 CarGen I

Future Considerations:

Industry recommended additional skills not included in current Certificate, Diploma or Associates Degree - in PURPLE

Trade Pathway	Technical Pathway	Engineering Pathway
Available Certificate: Automotive Electrical & Electronics Brakes Engine Performance & Engine Repair Suspension & Steering Transmission & Drivetrain Automotive Heating & Air Conditioning	Automotive Systems Technology Diploma COLLEGE ALT 116, TRN 110, ALT 141, ALT 151 ALT 181, ENG 111, ALT 182, TRN 140	Associate in Applied Science Degree Automotive Systems Technology

Work-Based Learning

- Options that increase awareness and build skills
 - Offered at developmentally appropriate ages
 - Increase in hours, responsibilities and skills developed
 - Support for pre-apprenticeship and apprenticeship programs (ex: Caterpillar, Apprenticeship 2000)

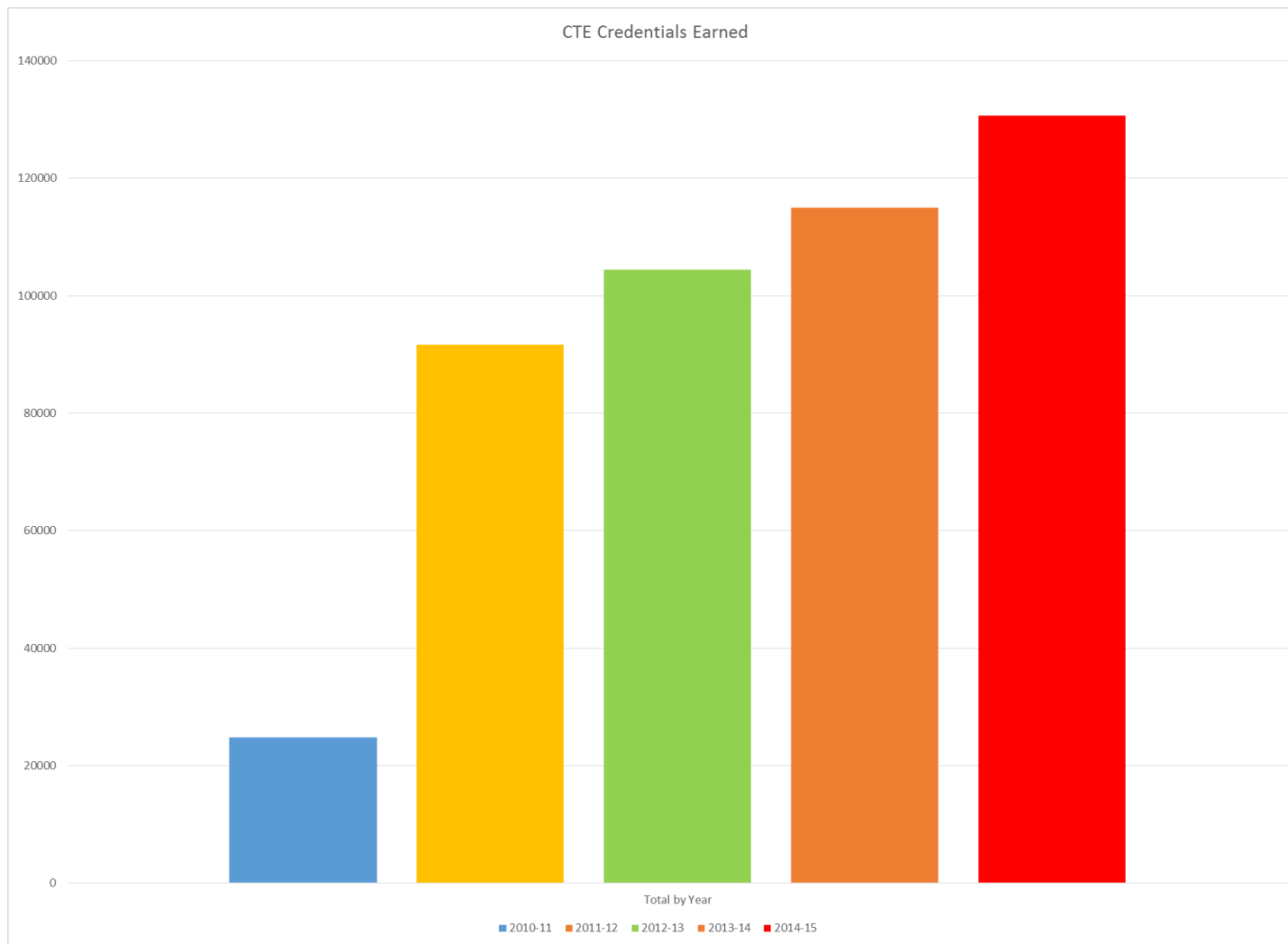


Moving Forward

Workforce Development is a complex problem that requires work collectively from a number of agencies

- Higher Education Partners: Community Colleges and Universities
- Department of Commerce
- Chamber of Commerce
- Employers/Associations
- Nonprofits
- Public/Private partnerships

CTE Credentials Earned



2014-15 Top Certifications Earned

Career Readiness Certificate	38636
Microsoft Office PowerPoint 2013	20580
Microsoft Office Word 2013	19849
NCCER Credential (all modules)	7068
Microsoft Office Excel® 2013	6239
CPR	6087
EverFi	4718
Microsoft Office Access 2013	4466
First Aid	3367
NC Hunter Safety Course	1732
Nurse Aide	1567
ServSafe® Manager Certification	1379
OSHA 10-Hour Construction Industry Certification	1206